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An image pickup apparatus comprising: an image pickup unit for outputting an image signal having a first number of pixels which is greater than a predetermined number of pixels; a converting unit for converting the image signal having the first number of pixels, outputted from the image pickup unit into an image signal having the predetermined number of pixels; a first memory having storage capacity corresponding to the predetermined number of pixels, for storing the image signal having the predetermined number of pixels, outputted from the converting unit; a second memory having a storage capacity corresponding to the first number of pixels, for storing the image signal having the first number of pixels, outputted from the image pickup unit; and a still image processing unit for outputting as still image data the image signal having the first number of pixels, read out from the second memory.